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Figure 1A

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Figure 1B

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Figure 2

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Figure 3A

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Figure 3B

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aa : 1263	e i i g s i k d e m e p s f q e v s f y 1282
ID 1: 3847	tac agc gag gag aac aag eet ccc gag cca gag gag ctg gag atg gag ctg gag atg gag 3906
ID 3: 4331	tac agc gag gag aac aag eet ccc gag cca gag gag ctg gag atg gag c--- --- --- --- 4379
aa : 1283	y s e e n k p p e p e e l e m e l e m e 1302
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Figure 4

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Figure 5

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Figure 6A

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Figure 6B

Figure 6C

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Figure 6D

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Figure 6E

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Figure 6F

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Figure 6G

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Figure 6H

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Figure 6I

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Figure 6J

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Figure 6K

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Figure 6L

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Figure 6M

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Figure 6N

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Figure 60

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Figure 6P

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Figure 6Q

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Figure 6R

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Figure 6S

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Figure 6T

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Figure 6U

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Figure 6V

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Figure 6W

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Figure 6X

Figure 6Y

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Figure 6Z

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Figure 6AA

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Figure 6BB

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Figure 6CC

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Figure 6DD

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Figure 6EE

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Figure 6FF

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Figure 6GG

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Figure 6HH

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Figure 6II

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Figure 6JJ

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Figure 6KK

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Figure 6LL

Figure 6MM

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Figure 6NN

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Figure 600

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Figure 6PP

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Figure 6Q

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Figure 6RR

Figure 6SS

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Figure 6TT

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Figure 6UU.

Figure 6VV

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Figure 6WW

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Figure 6xx

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Figure 6YY

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Figure 6ZZ

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Figure 6AAA

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Figure 6BBB

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Figure 6CCC

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Figure 6DDD

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Figure 6EEE

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Figure 6FFF

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Figure 6GGG

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Figure 6HHH

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Figure 6III

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Figure 6JJJ

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Figure 6KKK

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Figure 6LLL

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Figure 6MMM

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Figure 6NNN

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Figure 6000

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Figure 6PPP

76/83

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Figure 6QQQ

Figure 6RRR

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Figure 6SSS

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Figure 6TTT

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c

Figure 6UUU

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exon 1
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121 a|atctgcggg cgggcattg acatcccaaca cgataccagc cagctgaagc gcctggaga
exon 2 Primer 1
181 ctgcacggtg atcgagggct acctccacat cctgctcatc tccaaggctg aggactaccg
241 cagtcaccgc ttcccaagc tcacggcat caccgagttac ctgcgtgttccctgttgc
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601 gtgtgagaag acgaccatca acaacgagta caactatcgc tgctggacca cgaaccgttgc
Primer 2
661 ccagaaa|atg tgccggagcg tggtggggaa gggggcgttc acagagaacc acgagtgttgc
exon 3 Primer 3
721 ccaccccgag tgcctggca gctgcagcgc acccgacaaac gacacRgcct gtgtggcctg
SNP766
781 ccgccactac tactacgccc gagtctcggtt gccagctgc ccacccaaaca cctaccgtt
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961 catccgcaat ggcagccaga gc|atgtactt tatcccttgc gaaggccctt gccccaaagt
exon 4
1021 ctgtgaggaa gagaagaaga caaagaccat tgattctgtc acttctgtc agatgttcca
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1261 ggagcagctg ggggg|attt actcccttca cgtcccttgc aaccagaact tgcagcact
exon 6
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1381 tcccaaattt tggttcccg agatttaccc catggggaa gtgcacaggga cttaaggccg
1441 ccagagcaaa gggcacataa acaccaggaa caatggagag agagcctcc|t gtgaaagtga
exon 7 Primer 5
1501 cgtccKcac ttacccatcca ccaccacgtt gaagaaccgc atcatcatca cctggcaccg
SNP1507
1561 ataccggccc cctgactaca gggacctcat cagcttacttgcgttactaca aggaagcg|cc
Primer 6 exon 8
1621 cttaaaaaac gtcacggagt atgatggca ggtatggcttgcgttactaca aacccttgc
Primer 9
1681 ggtggacgtt gaccccttc ccaataagga cgtcgagcctt ggcattctac tgcattggct
1741 gaaggccctgg acacagtacg cYgttacgtt cRaggccgtt acccttgcacca tggggagaa
Primer 7 SNP1762 SNP1772

Figure 7A

82/83

1801 tgaccacatc cggtggccca agagttagat cttgtacatt cgcaccaatg ctcca|gttcc

Primer 8

exon 9

1861 ttccattccc ctggatgtcc ttcagcatc aaactctct ttcagctga tagtgaagtg

1921 gaacccgccc tcctgccc atggcaacct gagctactac atcgcggt ggcagcgcca

1981 gcctcaggac agctatctct accggcataa ttactgtcc aaa

Primer 10

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Intron 9

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exon 10

2041 gaagtatgct gatggcacca ttgatgtcga ggaggctaca gagaacccca agactgaagt

2101 gtgtggcggg gagaagggac catgtgtc ttgccccaaa acagaagctg agaagcaggc

2161 agagaaggag gaggctgataccgcaaggt cttcgagaac ttccgtcaca atgccatctt

Primer 11

2221 tggccca|cctgaacggaa agcggagggaa ggtcatgcag gtcgccaayt ccaccatgtc
exon 11 Primer 12 SNP22692281 cagccggc agaaacacca cagtgggta cacctacaat gtcacggacc cagaggagct
Primer 13

2341 tgagacagag taccctttt ttgagagcag agtggataac aaggagagaa ctgtcatttc

2401 caacctccgg cttttactt tgaccgaat tgacatccac agctgtaaacc atgaggctga

2461 gaagctgggc tgcaatgcattt ccaactttt ctgtcaaga accatgcctg ca|GGTAT

Intron 11

GGTGTGATCCAGTCACTCCATTCTAATTCACTCACAGCCITGATTGTAC
 AGATGGAGGCTGACACCCAGGGCAATGACCCTTACTCTCAGTCCTGCTTA
 TTAAAGAACATGAGTGGCTTTGTAGGCAGCTCACTAGTCCAGCAGCCCAG
 GAATGGAGTTCATTCATAGCAACCCCCACTCTCTCCCCAGTCTCTCCATACA
 GAGTGCTTGAGAGCAGGGAACTCAATTCAAGGGTCTACACTTCCCTCTCCT
 TGGTTCATGTTGTGCATTGCCGTGGGCCCTTTTTTGCCCATTTATGCAA
 GGGAAATTGCCAGGTCTCCTGAGTTCTCAGAGATT
 TGTGAAATCCTCAGTTGGCTGCCCTGAATCAAAGTGAGTGTAGCTCCTGA
 AGGTCAAGCTCCCAGAGCAGCTCGCGTCTGTTGGCCTCACCTTC
 CTCCTCTTAAAGACTACCTGT
 GTATGTGAGGTCAAGGTAGGGAGAAATGAACGCAGGTACCGTCTGCAGTCC
 TGTATGCATGGTTGAAGAGGGTATTCTTAGGTAA
 TCCAGCATTTTGTCTTTGGGGACTTGAGTCTAACTCATTGCTTGT
 TTCAATTGTTGCACA|gaaggagc

exon 12

2521 agatgacatt cctggccag tgacctggga gccacggct gagaactcca tcttttaaa

2581 gtggccagaa cctgagaatc ctaatggatt gattctaattatgatgaaataa aatacggatc

2641 acaagtcgag| gatcagcggtt aatgtgtgc cagacaggag tacaggaagt atggagggc

exon 13

2701 caagctgaac aggctcaacc cggggacta cacggccgg attcaggcca cctctctc

Figure 7B

2761 cgggaatggg tcatggacgg aacctgtgtt cttctacgtc caggccaaa|a cgacatata
exon 14

2821 aaacttcatc catctgatca tcgcctacc agtggccgtt ctgttgatag taggagggtt
2881 ggttataatg ttgtacgtct tccacagaaa gagaa|ataaac agcaggctgg ggaatggagt
exon 15

2941 gctgtatgct tccgtgaacc cggagttactt cagcgcagct gat|gtgtacg tgcccacg
exon 16

3001 gtgggagggtc gcccgggaga agatcaccat gagccgggag ctgggacagg gctccctcg
Primer 14

3061 gatggtttat gaaggcgtcg ccaaSggYgt ggtcaaagat gggctgaga ccagggtggc
SNP3085 SNP3088

3121 cattaagaca gtgaatgagg cgcgcagcat gcgYgagagg attgagttic tcaacgaggc
SNP3154 Primer 15

3181 ctccgtatg aaggagttca actgtcacca cgtg|GTGAGGGAAAGGGCCCCAAG
Primer 16 Intron 16

GGTTGGGRCCACCCTTATGGGTTGCGACTCATCCTGTCTCTGTAGGATCC
CTSTCACTGCTCAAGAAGGTTGGGGGGATGTGCA
SNP16i27 SNP16i73

GGTCCAGGGAGTCTGGTGCCACATCATCCAGGGTGCTCAGGGTGGTCCT
GGTGGGGTTGGGGGGCTGCAGGGGGCTCACCCCCTGTCTCCTCTCTTCCC
CCTCACAG|gtgcgg ctgctgggtg tgggtccca
exon 17

3241 gggccagcca acgctggta tcatggact gatgacccgg gggacacta aaagtatct
Primer 17

3301 ccggctctg agaccagaaa tggag|ataaa tccagtccta gcacctccaa gcctaagcaa
exon 18

3361 aatgatccag atggctggag agatYgcaga tggcatggca tacctcaacg ccaataagtt
Primer 18 SNP3385 Primer 20 Primer 19

3421 tgtccacaga gacctcgctg cccggaaactg Yatggtgcc gaagacttca cagtcaaaaat
SNP3451 Primer 21

3481 cggal|gatttt gggatgacga gagacatcta tgagacagac tattaccgca agggagggaa
exon 19

3541 aggctgtcg cctgtgcgt ggatgtcccc tgagtccctc aaggacggag tcttcaccac
3601 gcactctgat gtctgg|tcct tcggggtcgt cctctggag attgccacgc tggcgagca
exon 20

3661 gcccataccag ggctgtcca acgagcaagt cttcgcttc gtcatggagg gccccttc
3721 ggacaagccg gacaactgtc ccgacatgtc g|tttgaVctg atgcgcattgt gctggcagta
SNP3757 exon 21

3781 caaccccaag atgaggccctt cttcctgga gatcatcagc agcatcaagg aYgagatgga
Primer 22 SNP3832

3841 gcctggcttc cgggaggctt cttctac|a cagtggagg aacaagccgc ctgagccgg
3901 ggagctggac ctggagccgg agaacatgg a gacgtcccc ctggaccctt cggcccttc
3961 gtcctccctg ccgctgcccc acagacactc aggacacaag gctgagaacg gcccaggccc
4021 tggcgtgtcg gtgtgcgg ccagctcga cgagagacag cttacgcgc acatgaacgg
4081 gggccgcaag aacgagcggg ccctgcctt gccc|agtcc tcgacatgtc gatccctggat
Primer 23

4141 cccgatcccg tgcaaacagt accgtgcgc a cgcggccgg cggggggaga gttttaacaa
4201 tctattcaca agcctcctgt acctcagtg atcttc